

Patent Claims

1. A device for treating disk-shaped objects (10) using liquids, including:
 - 1.1 a carrier (1) for receiving the disk-shaped object;
 - 1.2 a liquid supply device (17) for applying liquid onto a disk-shaped object located on
5 the carrier; and
 - 1.3 a liquid catch ring (2), which is positioned substantially coaxially to the carrier (1)
and is rotatable around the axis of the liquid catch ring, the liquid catch ring being
movable relative to the carrier.
2. The device according to Claim 1, wherein the liquid catch ring is rotatable in relation to
10 the carrier.
3. The device according to Claim 1, wherein it includes devices (25) for axial displacement
of carrier (1) and liquid catch ring (2) in relation to one another.
4. The device according to Claim 1, wherein the carrier (1) is rotatable.
5. The device according to Claim 1, wherein the diameter (D) of the inner surface (6) of the
15 liquid catch ring (2) varies in the axial direction.
6. The device according to Claim 1, wherein the liquid catch ring (2) has radial passages
(5), through which the liquid may be conveyed radially outward.
7. The device according to Claim 4, wherein the radial passages (5) are located at the
points of the liquid catch ring (2) at which the diameter (D) of inner surface (6) is at least
20 locally greatest (Dmax).
8. The device according to Claim 5, wherein the inner surface (6) of the liquid catch ring (2)
is implemented as conical.
9. The device according to Claim 5, wherein a floor (7), which rises radially inward, is
shaped onto the bottom end of the liquid catch ring (2).
- 25 10. The device according to Claim 1, wherein at least one annular chamber (4), which is
open inward and in which liquid thrown off of the liquid catch ring (2) may be collected, is
positioned around the liquid catch ring (2).
11. The device according to Claim 10, having at least two annular chambers (4, 4'), wherein
the openings facing inward are positioned one below the other, and devices (25) are
30 provided for axial displacement of chambers (4, 4') and liquid catch ring (2) in relation to
one another.
12. The device according to Claim 11, wherein at least a part of the outer surface (7) of the
liquid catch ring (2) has the shape of a cylindrical sleeve.
13. The device according to Claim 10, wherein the at least one annular chamber (4) and the
35 carrier (1) are not displaceable in relation to one another in the axial direction.